

INTERNATIONAL SEARCH REPORT

national Application No

PCT/US2004/022820

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C07D239/42 C07D239/48 C07D251/18 C07D403/04 A61K31/505
A61P25/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C07D A61K A61P

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, CHEM ABS Data, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 168 262 A (FUJISAWA PHARMACEUTICAL CO) 15 January 1986 (1986-01-15) example 33	49-52, 54,56, 60,61
A	WO 02/072536 A (WYMAN PAUL ADRIAN ; GLAXOSMITHKLINE (GB); THOMPSON MERVYN (GB); SMITHK) 19 September 2002 (2002-09-19) page 1, line 23 - page 2, line 10	1-97
A	WO 02/090326 A (RAMI HARSHAD KANTILAL ; WYMAN PAUL ADRIAN (GB); THOMPSON MERVYN (GB);) 14 November 2002 (2002-11-14) page 1, line 27 - page 2, line 21 -/--	1-97

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- *&* document member of the same patent family

Date of the actual completion of the international search

22 November 2004

Date of mailing of the international search report

07/12/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax (+31-70) 340-3016

Authorized officer

Uselli, A

INTERNATIONAL SEARCH REPORT

International Application No

PCT/US2004/022820

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P, X	<p>WO 03/099284 A (DOHERTY ELIZABETH M ; AMGEN INC (US); CHEN NING (US); NORMAN MARK H (U) 4 December 2003 (2003-12-04) page 7, line 1 - page 19, line 16 page 156, line 24 - page 158, line 28; examples 60,62,22,51,56,58 -----</p>	1-97
E	<p>WO 2004/089286 A (IRM LLC ; DING QIANG (US); SCHULTZ PETER G (US); SIM TAE-BO (US); ZHAN) 21 October 2004 (2004-10-21) Reference 2 (page 21) page 2, line 1 - page 3, line 12; compounds 1,5,6,19,22,36,52,53,55 -----</p>	32,33, 35,36, 38,56, 60,61

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2004/022820

Box II Observations where certain claims were found unsearchable (Continuation of Item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
Although claims 62-88 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of Item 3 of first sheet)

This International Searching Authority found multiple inventions in this International application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

Information on patent family members

national Application No

PCT/US2004/022820

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 0168262	A	15-01-1986	EP 0168262 A2	15-01-1986
			JP 61044872 A	04-03-1986
			US 4725600 A	16-02-1988
WO 02072536	A	19-09-2002	EP 1366020 A1	03-12-2003
			WO 02072536 A1	19-09-2002
			JP 2004525127 T	19-08-2004
			US 2004082661 A1	29-04-2004
WO 02090326	A	14-11-2002	WO 02090326 A1	14-11-2002
			EP 1392651 A1	03-03-2004
			JP 2004527571 T	09-09-2004
			US 2004171639 A1	02-09-2004
WO 03099284	A	04-12-2003	CA 2468544 A1	19-06-2003
			EP 1463714 A2	06-10-2004
			WO 03049702 A2	19-06-2003
			WO 03099284 A1	04-12-2003
			US 2003195201 A1	16-10-2003
			US 2004038969 A1	26-02-2004
WO 2004089286	A	21-10-2004	WO 2004089286 A2	21-10-2004